

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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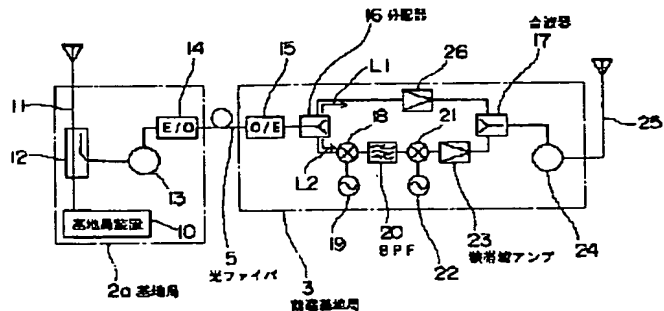
APPLICATION DATE : 27-05-96  
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : KAMEMURA AKIHIRO;

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TITLE : RADIO REPEATER AND RADIO RELAY SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To distribute communication traffic with a simple configuration.

SOLUTION: A forward base 3 connecting to a base station 2a installed in a radio zone via an optical fiber 5 is installed in an adjacent radio zone adjacent to the radio zone at a position so that a very small radio zone formed by the forward base station 3 is adjacent to the radio zone. The forward base station 3 is provided with a distributor 16, which distributes a signal given from the base station 2a into two paths L1, L2. Only a control signal component in a speech signal and a control signal distributed to the path L2 is extracted by a BPF 209 and only the extracted control signal component is amplified by a narrow band amplifier 23. The control signal component after amplification is synthesized with a signal distributed to the other path L1 by a synthesizer 17. Since only the control signal component is amplified largely, a broad band amplifier with a high output able to amplify even the speech signal is not required. Thus, the small sized amplifier with small power consumption is used and the configuration is simplified.

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